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UNEXPLODED ORDNANCE ON LANDS MANAGED BY THE DEPARTMENT OF THE INTERIOR

June 29, 1994

(Revised July 14, 1994)

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Edited by: Dwight J. Hempel
Bureau of Land Management

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INTRODUCTION

The following maps and tables are an initial compilation of information concerning the lands potentially contaminated with unexploded ordnance that are managed by Department of the Interior agencies. The information in this report will continue to change as additional contamination is found, as listed sites are investigated and found not to be contaminated, and as contaminated sites are remediated.

The sites listed are formerly used Defense sites. These sites are eligible for remediation under the Defense Environmental Restoration Act. The U.S. Army Corps of Engineers is assigned implementation of the Defense Environmental Restoration Program which includes characterization and remediation of formerly used Defense sites.

An attempt was made to provide the reader with a sense of the accuracy of the data. The Fish and Wildlife service used the term "documented" to indicate where a site report has been prepared and the term "suspected" to indicate where additional archival and site characterization work needs to be accomplished.

The Bureau of Land Management used the terms "known," "suspected," and "unknown" to indicate the level of knowledge concerning the contamination of the site. "Known" is a documented site. "Suspected" means there is probably contamination, but site characterization has not been completed. "Unknown" means that the military used the site, but no archival of site characterization has been completed.

Information concerning Indian Reservations is not complete. It is our understanding that the Corps of Engineers has a contract with the National Tribal Environmental Council to develop an inventory of formerly used Defense sites on Indian Reservations by the Fall of 1994.

Discussions with the Territorial and International Affairs office indicated that the Department of Interior has no responsibility related to unexploded ordnance in the territories and former territories of the U.S. Unexploded ordnance issues are dealt with directly between these governments and the Corps of Engineers.

Agency points of contact for this report are:

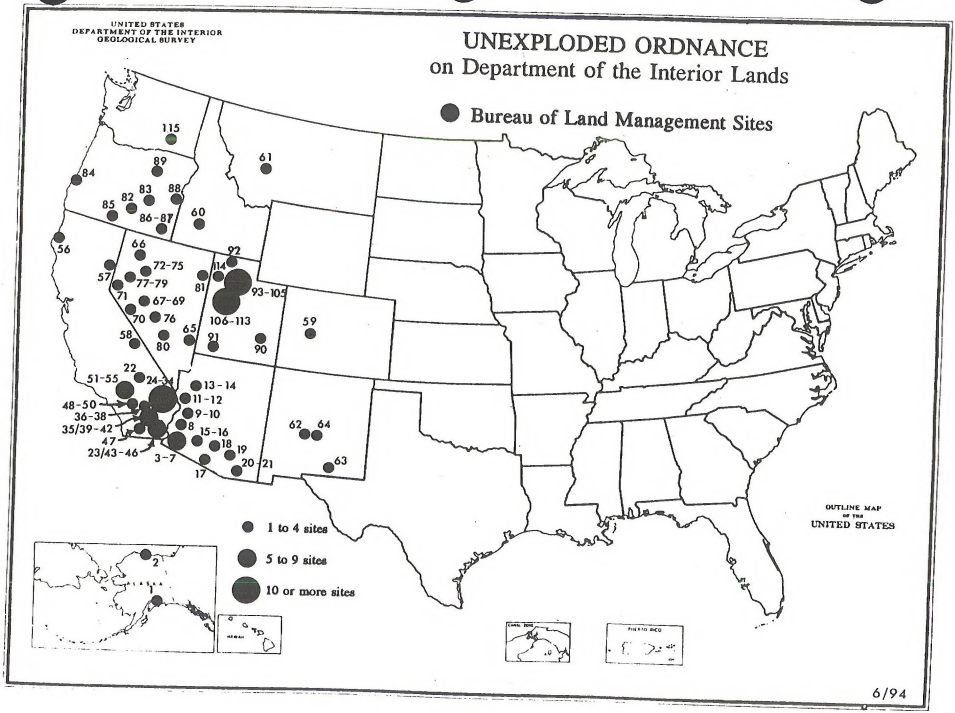
Bureau of Land Management	Dwight Hempel	(202) 452-7778
Fish and Wildlife Service	Sean Furniss	(703) 358-2043
National Park Service	Shawn Mulligan	(303) 969-2065
Bureau of Indian Affairs	George Farris	(202) 208-4791
Bureau of Reclamation	Max Haegele	(303) 236-1061, Ext. 249

UNEXPLODED ORDNANCE ON LANDS MANAGED BY THE DEPARTMENT OF THE INTERIOR

SUMMARY

AGENCY	SITES	ACRES
Bureau of Land Management	115	5,358,000
Fish and Wildlife Service	22	*1,214,000
National Park Service	18	338,000
Bureau of Indian Affairs	12	Unknown
Bureau of Reclamation	2	**121,000
	Total	7,031,000

* 107,000 acres are joint use with a military service.
** 121,000 acres are joint use with a military service.



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Attachment 1-4

BUREAU OF LAND MANAGEMENT UNEXPLODED ORDNANCE SITES
AS OF JUNE 1994

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
1	Davis Range, Anchorage, AK	Unknown 1,370	Artillery	Established as a safety buffer. When cleared, lands will be transferred to the State of Alaska for park purposes.
2	McIntyre Distant Early Warning Site, AK	Suspected 10	Unknown	Possible small arms munitions and destruction devices.
3	Auxiliary 4, Yuma, AZ	Unknown 640	Unknown	1938 - 1994. Air Force, Marines and civilian use. Auxiliary landing field, used by armed forces. The Bureau of Reclamation leased to the county since 1986. Possible diesel/other petroleum contaminated. The Bureau of Reclamation withdrawn lands are administered by BLM.
4	East of Blaisdell, AZ	Suspected 320 Unknown 960	Small arms munitions	1940 to 1981. Army National Guard use for a rifle range 1951-1981.
5	Martinez Lake South, AZ	Suspected 320	WWII Army - various	1938 -1945, Army Maneuver Area.
5	Radar Hill, AZ	Unknown 3	Unknown	1955 to 1970 Air Force Radar gap. Filler site with petroleum product spillage near fuel tank.
7	Wellton Aux. Field, AZ	Unknown 320	Unknown	1943-1950. Air Force auxiliary landing field.
8	Stone Cabin Area, AZ	Suspected 2,400	WWII & Korean Army, various	1938-1959. Army maneuver and training-Army test station.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
9	Phomosa Road Camp, AZ	Suspected 640	WWII Army - various	1938-1945. Old Army Camp-Army Maneuver Area.
10	Camp Bouse, AZ	Known 50,000	WWII Army - various	1939-1945 Army armored maneuver training during World War II, under General Patton. Military waste is found on the surface in low density. The extent of subsurface contamination is unknown.
11	Public Land Order (PLO) 126, AZ	Unknown 19,200	Unknown	Established as an aerial gunnery range- 5/20/43 (PLO 126). Revocations in 9/47 (PLO 409) and 3/49 (PLO 570).
12	Franconia, AZ	Suspected 1	Ammunition	World War II ERA. Possible Army Radar Site. Spent ammunition and some live ammunition have been found throughout the Dutch Flats area.
13	PLO 166, AZ	Unknown 240	Unknown	Established as a Ground-to-Ground Gunnery Range 9/15/43 (PLO 166). Revoked 7/25/47
14	PLO 192, AZ	Unknown 40	Unknown	Established as an aerial gunnery range 11/2/43 (PLO 192). Revoked 4/1/49 (PLO 580).
15	Forepaugh Airport, AZ	Unknown 640	Unknown	1940-1950. Used for Army Fighter Pilot Training. Now under Wickenburg Airport lease.
16	Sentinal Radar Site, AZ	Unknown 5	Unknown	A radar site. Hazardous Materials were previously removed by Navy.
17	Childs Mountain Installation, AZ	Unknown 40	Unknown	1940's - 1960 used for unknown Air Force use.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
18	Electronic Proving Ground, AZ	Unknown 4,780	Unknown	U.S. Army (Ft. Huachuca) for Electronic Testing.
19	Marana Aux. Airfield #3, AZ	Unknown 182	Unknown	1940-1945. Since January 6, 1983, this site has been leased under the Recreation and Public Purposes Act to the Tucson Soaring Club for a glider port. The lease is active through 01-05-2013.
20	Charleston, AZ	Known 640	Artillery & land mine	1940-1945. Army infantry training ground in and around the ghost town of Charleston. BLM has found one live artillery round and a training land mine.
21	Graveyard Gulch, AZ	Suspected 480	WWII & Korean Army - Bombs and artillery	Army bombing and gunnery range used between approximately 1940 through 1957. Several ruins remain of concrete targets and bunkers.
22	OWLS HEAD MOUNTAIN, CA	Known 120,000	Various	120,000 acres have live ordnance and drones.
23	SAND HILLS IMPACT RANGE, CA	Unknown 2,500	Unknown	The lands were withdrawn by the Bureau of Reclamation for many years. In 1981, BLM accepted Bureau of Reclamation's relinquishment of these lands and they were returned to public lands status. The acceptance of the relinquishment was held up for several years because of the potential for unexploded ordnance.
24	STATELINE ORDNANCE, CA	Suspected 100	Unknown	

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
25	CAMP IBUS, CA	Suspected 400	WWII Army - various	General Patton's desert training in WWII.
26	NEEDLES ARMY HOSPITAL, CA	Unknown 50	Unknown	
27	NEEDLES MILITARY AIRPORT, CA	Unknown 100	Unknown	
28	NEEDLES PRISONER OF WAR CAMP, CA	Unknown 400	Unknown	Possible small arms munitions.
29	CAMP CLIPPER, CA	Suspected 400	WWII Army - various	General Patton's desert training in WWII.
30	ESSEX AIRFIELD, CA	Unknown 100	Unknown	
31	ESSEX ORDNANCE DISPOSAL, CA	Suspected 100	WWII Army - various	
32	GOFF'S BUTTE, CA	Suspected 400	WWII Army - various	80 tons of munitions and other hazardous materials moved to an abandoned mine site.
33	GOFF'S DUMP, CA	Suspected 400	WWII Army - various	Military encampment.
34	GOFF'S AIRFIELD, CA	Unknown 100	Unknown	
35	CAMP YOUNG, CA	Unknown 100	WWII Army - various	General Patton's desert training in WWII.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
36	CADIZ ORDNANCE DISPOSAL SITE, CA	Suspected 100	WWII Army - various	
37	CAMP GRANITE, CA	Suspected 400	WWII Army - various	General Patton's desert training in WWII.
38	CAMP IRON MOUNTAIN, CA	Suspected 400	WWII Army - various	General Patton's desert troop training in WWII.
39	CHOCOLATE MOUNTAIN, CA	Suspected 770	Bombs and aerial munitions	Ordnance needs to be cleared from peripheral areas.
40	CORN SPRINGS GAP FILLER, CA	Unknown 10	Unknown	General Patton's desert troop training in WWII. There is one building located on site.
41	CAMP COXCOMS, CA	Suspected 400	WWII Army - various	General Patton's desert troop training in WWII.
42	RICE VALLEY SAND DUNE, CA	Suspected 1,000	WWII Army - various	This is a large area contaminated with ordnance from WWII maneuvers.
43	PALO VERDE GAP, CA	Unknown 2	Unknown	1957 to 1970 Army radio relay site - Corps of Engineers - abandoned. Petroleum product contamination from fuel tanks suspected. Pieces of asbestos littering the ground.
44	EAST MESA I BOMBING, CA	Known 4,450	Navy air delivered munitions	There is live ordnance outside the periphery of the range on approximately 4,450 acres. Injuries have occurred.
45	EAST MESA II BOMBING, CA	Known 5,500	Navy air delivered munitions	There is live ordnance that needs to be removed on 5,000 acres.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
46	SACRAMENTO MOUNTAINS RANGE, CA	Suspected 1,000	90mm arty 75mm HE	Unexploded munitions have been found on public lands.
47	Carrizo Impact Area, CA	Suspected 9,820	Unknown	Little is known about this area. It was used by the Navy. It is shown on the Master Title Plats under case file R-05656 as Contaminated Military Area, Surface Use Only.
48	SILVER PEAK, CA	Unknown 10	Unknown	Old military communications site, concrete pad and garbage.
49	JOHNSON VALLEY, CA	Suspected 50,000	Variety	Common boundary with Twentynine Palms Marine Base and public lands. Area contaminated with vintage and modern ordnance which need removal.
50	29 PALMS MARINE, NOR, CA	Known 20,000	Variety	20,000 acres of periphery are contaminated with live ordnance.
51	Marine Corps Supply Depot - NEBO, CA	Unknown 17	small arms munitions	Area withdrawn by Marines until 1980. Berms and trenches utilized as rifle and pistol target ranges. Some projectiles found on surface of berm areas.
52	HAWES RADAR, CA	Unknown 640	Unknown	Site of Air Force Radar installation. Abandoned during the 1980s. Scattered debris and underground fuel tanks present.
53	RED MOUNTAIN, CA	Unknown 10	Unknown	There is an abandoned beacon tower and associated debris.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
54	CUDDYBACK LAKE GUNNERY RANGE, CA	Suspected 7,700	Bombs and munitions in subsurface; surface has been cleared	The area was withdrawn in 1963 for 10 years for use as an Air Force range. The Air Force declared the land excess in 1984, however, BLM has not accepted the land back. Most of the area was used as a testing range and also contains at least one building and an old air strip.
55	UPPER RAINBOW BASIN, CA	Unknown 1,000	Unknown	Modern and vintage drone aircraft have crashed into the area leaving debris.
56	SAMOA STATION, CA	Unknown 197	WWII various	This site was used for munitions storage during World War II. There is a possibility that munitions were lost/buried in sand.
57	SIERRA ARMY DEPOT, CA	Suspected 1,700	Anti-personnel bombs; other.	Activity 1941 to present. Contaminated lands are immediately adjacent to Army facility used for detonation of obsolete munitions. Unexploded anti-personnel bombs were discovered in July 1990 on adjacent public land. Since then an emergency restriction was imposed by BLM and the site secured by a fence paid for by Sierra Army Depot.
58	Death Valley Drum, CA	Unknown 50	Unknown	There are buried drums at an old abandoned landing strip rumored to have been used for military exercises. Time period unknown.
59	DELTA RANGE, CO	Suspected 13,500	Artillery and small arms	1940 to 1981. Army National Guard use for a range 1951-1981.
60	MOUNTAIN HOME AFB SMALL ARMS RANGE, ID	Suspected 713	Small arms munitions	World War II era. Possible Army Radar Site. Spent ammunition and some live ammunition has been found throughout the Dutch Flats area.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
61	LIMESTONE HILLS RANGE, MT	Known 7,000 Suspected 13,000	Tank, artillery, small arms, helicopter gunship	1940's to present. Montana Army National Guard Firing Range. Most contamination is from early use.
62	AEROBEE 350 AREA, NM	Unknown 89,600	Unknown	1973 to present. Site used by Army at White Sands Missile Range as a safety buffer area for missile testing.
63	Guadalupe Gunnery Range, NM	Suspected 8,160	Unknown	1938 - 1994. Air Force, Marines, and civilian use. Auxiliary landing field, used by armed forces. The Bureau of Reclamation leased to the county since 1986. Possible diesel/other petroleum contaminated. The Bureau of Reclamation withdrawn lands are administered by the BLM.
64	WHITE SANDS MISSILE RANGE EXTENSION AREA, NM	Unknown 100,000	Missile items	1960 to present. Used by the Army as a safety extension area of the missile range.
65	N-19621	Unknown 57	Unknown	1976-1978. Withdrawal application was made by the U.S. Air Force. Cancellation of the withdrawal was received from the Department of the Army. Activity unknown.
66	BLACK ROCK RESORT, NV	Unknown 272,000	Unknown	1958-1965. Navy. Air-to-Air Gunnery Range.
67	STILLWATER, NV	Unknown 1,000,000	Unknown	4/41-5/41. Navy. Activity unknown.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
68	BRAVO 17, NV (NEV-051797)	Suspected 17,085	Bombs and other aerial munitions	1940's-present. Navy. The withdrawal is used as a bombing and gunnery range. The problem is with the ordnance which lands outside the withdrawn range.
69	BRAVO 19, NV (NEV-051797)	Suspected 5,490	Bombs and other aerial munitions	1940's-present. Navy. The withdrawal is used as a bombing and gunnery range. The problem is with the ordnance which lands outside the withdrawn area.
70	LY 404, NV	Unknown 1	Unknown	1986 (Date of Discovery). A mine shaft which contains barrels of chlorinated solvents is located on this site. We suspect that this dumping occurred at the same time as the Pine Grove Site. The two mine shafts are very close together. Contains chlorinated solvents.
71	MONITE DYNAMITE FACTORY, NV	Unknown 1	TNT & DNT in soil	1920-1960. Navy. Monite Explosive Factory (later International Explosives Company) manufactured an explosive called Monite, used in mining, on this site. The company also had a contract to dismantle torpedoes for the Navy in the same facility (anecdotal evidence). The explosive materials found to date are TNT (Trinitrotoluene) and DNT (Dinitrotoluene).
72	AMERICAN ANTIMONY MILLSITE, NV	Unknown 1,000	Unknown	1942-Present. Army-Air Force. Concern is that the millsite is built on top of what is suspected to be a large underground fuel storage tank used by the military during World War II. Foundations remaining on the site indicate that there may have been other facilities as well. The site merits further investigation.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
73	NEV-051797	Unknown 640	Unknown	1940's-?. Navy. Activity unknown.
74	NEV-051797	Unknown 640	Unknown	1940's-?. Navy. Activity unknown.
75	NEV-051797	Unknown 640	Unknown	1940's-?. Navy. Activity unknown.
76	NEV-054504	Unknown 160	Unknown	1943-1948. Army. Activity unknown.
77	PINE GROVE FLAT, NV	Unknown 1	Unknown	1986 (Date of discovery 11/24/1986). Army. A mine shaft is located on this site which contains numerous canisters of mustard gas neutralizer chemicals. The Army has accepted responsibility for this cleanup.
78	SHAHWAVE MOUNTAIN, NV	Unknown 639,000	Navy aerial munitions	1958-1965. Navy. Air-to-Air Gunnery Range.
79	BRAVO 16, NV (NEV-051797)	Suspected 1,889	Bombs, aerial munitions	1940's-present. Navy. The withdrawal is used as a bombing and gunnery range. The problem is with the ordnance which lands outside the withdrawn area.
80	TONOPAH AIR FORCE BASE, NV	Unknown 1,000,000	Unknown	1941-1961. Air Force. Air Force Training Base.
81	WENDOVER AIR FORCE BASE, NV	Unknown 80,000	Unknown	1942-1962. Air Force Base. 80,000 acres have been relinquished.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
82	ALKALI LAKE TARGET AREA, OR	Unknown 1,200	30-55mm munitions	The area identified lies within a much larger area of Lakeview Resource Area which, between approximately 1942 and 1948, was used for military maneuvers, and as an aerial gunnery range. Although specific information regarding actual military use is unclear, historical observation indicates the area was used quite frequently for aerial target practice purposes. Physically the area is littered with 30-50mm projectiles and displays remnant target structures. Subsurface uxo is unknown.
83	BURNS RADAR BASE, OR	Unknown 40	Unknown	1955 to 1973. Air Force. The site was utilized as a radar base. No larger scale military operations, training, or maneuvers were known to have occurred at the site.
84	COOS HEAD NAVAL FACILITY, OR	DOD - no cleanup needed BLM - not yet verified findings 90	Unknown	Starting in 1884 - War Department; 1956 Department of the Army transferred land to Department of the Navy; 1983 Navy relinquished 90 acres to BLM. On May 21, 1992, the Corps of Engineers performed a site visit to the subject site (Formerly Used Defense Site Number F100R052900). Based on the visit, the site was determined to be formerly used by the DOD and therefore eligible for the Defense Environmental Restoration Program.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
85	GERBER BOMBING SITE, OR	Unknown 80	50 caliber	The bombing site is a small island located inside Gerber Reservoir, Klamath County, Oregon. The permit was issued in 1945 and terminated in 1952. According to the Klamath County Historical Society, the bombing site was used for strafing with 50 cal. machine guns and iron practice bombs, not high explosives. Live 50 cal. cartridges have been found all over the area surrounding the reservoir. The number of these shells is rapidly decreasing as our prescribed burning operations detonate the primers. The site has lead contamination from the lead bullets.
86	ROME B-17 AIRSTRIP, OR	Unknown 1,600	Unknown	Approximate date of activity 1942-1948? Used by US Army Air Corps and, after 1948, the US Air Force. The type of Military Asphalt emergency B-17 airstrip.
87	SOUTHEAST OREGON AIR GUNNERY RANGE, OR	Known 877,000	Practice bombs and 50 caliber	1942-1948. Army Air Corps bombing and gunnery range. Live and spent 50 caliber ammunition, shell casing, belt links and practice bombs.
88	UNKNOWN - ASSOCIATED WITH GOWEN FIELD, OR	Unknown 123	Unknown	Used just prior to Sept. 26, 1944, by Air Force as a bombing range.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
89	(no name - T5S,R30E WM), OR (PEARSON)	COE-site clean BLM not yet verified 320	Unknown	Withdrawn to War Department, 1943-55. Purpose unknown. Checked for contamination by Corps of Engineers personnel in May 1993. Found none.
90	BLACK MESA MISSILE, UT	Unknown 5,050	Unknown	Approx date: late 1950's - mid 1970's. Army. Firing base for Pershing missiles test fired to White Sands Missile Range, NM. Possible contaminants: spent fuels and propellants, lubricants, solvents, and solid wastes. All structures removed.
91	HURRICANE MESA TEST AREA, UT	Suspected 640	40mm M79 grenades and 60mm mortars	Exact date unknown - in 1960's. Property formerly owned by Department of Defense. Impact area for 40mm and 60mm projectiles. In 1986 injury occurred to campers when a M79 40mm was thrown in campfire.
92	WILDCAT HILLS, UT	Unknown 50	Unknown	Wildcat Hills is the location of an F-16 crash. This area was never managed by the DOD, but is within controlled air space.
93	CARRINGTON ISLAND, UT	Suspected 1,200	WWII munitions	Used as a target during 1941 through at least 1945. Only access at present is by boat, or at low water levels of the Great Salt Lake by all terrain vehicles. An unknown amount of ordnance was dropped on the island, some portion of which may still exist as unexploded material.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
94	ABANDONED GRAVEL PIT, UT	Suspected 10	Unknown	This is a 5-to 10-acre gravel pit where the Military buried ordnance. A cleanup was planned for 1985, but we received reports of rocket fins in place in the quarry in 1992. Placed on Federal Facilities Docket 12/15/93 by 103(c) report.
95	BOMB CRATERS, UT	Unknown 1,920	Bombs	Bomb craters are in evidence.
96	GAPA SITE, UT	Unknown 5,760	Unknown	Was in bombing range and may be contaminated. Site is on National Register.
97	GRAVEL PIT 1, UT	Unknown 1,280	Unknown	Great Salt Lake Pumping Project gravel quarry.
98	GRAVEL PIT 2, UT	Unknown 1,920	Unknown	Material site right-of-way U-0101317.
99	MAGCORP PONDS, UT	Suspected 100	Bombs, rockets	In 1986, the subject area was examined for its potential for use as an evaporation pond. A large number of projectiles were seen covering a vast area of public lands. These projectiles appeared to be bomb casing and rockets. The area was reported to Explosives Ordnance Disposal (EOD) Team at Hill Air Force Base. Never received any followup from EOD and doubt the site was ever cleared.
100	OLD TARGET, UT	Unknown 1,280	Unknown	Old target area used in the 1940's.
101	OLD TARGET 2, UT	Unknown 640	Bombs	Old target area was on the bombing range, but is now public range land.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
102	USPCI Pit, UT	Unknown 160	Unknown	Gravel quarry used by U.S. Pollution Control Inc.
103	T.1S., R.12W., SALT LAKE MERIDIAN, UT	Unknown 160	Unknown	Distinct vegetation change seen on orthophotoquads. May be related to contamination from military activities.
104	NEWFOUNDLAND RANGE, UT	Suspected 23,040 Unknown 96,120	Bombs and other aerial munitions	Newfoundland Range (23,040 acres) is adjacent to Hill Air Force bombing range north unit. The range has been overflown for at least 50 years. Over the years we suspect that ordnance has been dropped in the area. Our area of concern includes T5NR13W, T5NR14W, T6NR13W - this is an additional 92,160 acres where we suspect unexploded ordnance may be found.
105	SOUTH RAILROAD GRADE, UT	Suspected 150,000	Bombs and other aerial munitions	This area has never been managed by the DOD but is within their controlled airspace. It includes the land between the Southern Pacific Railroad Grade and the North Unit of the Hill Air Force Base Test and the Training Range. This bombing range has been used since WWII. We suspect that live ordnance has been dropped on the Public Land from time to time and that much of this has not been recovered.
106	LITTLE DAVIS MOUNTAIN, UT	Known 250	Chemical munitions	This disposal area is located South of Little Davis Mountain. Items disposed of at this site date back to the 1940's and include drums of various agents from the desert laboratories. The site includes drums of mustard nerve agents (GB) and foreign chemical munitions (live). Radioactive wastes were removed from the site in approximately 1986.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
107	DUGWAY MOUNTAINS, UT	Suspected 17,280	Variety of munitions, both conventional and chemical	It is necessary to conduct a detailed survey of all mines in the entire mining district/mountain range. There is at least one recorded incident involving the recovery of a 11.75-inch rocket with a live warhead in the Dugway Mountain Range. There is a strong indication that past tests were conducted throughout the area using conventional weapons. Based upon documented incidents involving both unexploded ordnance and chemical residue, it is highly probable that these mine areas are potentially hazardous from a wide variety of munitions.
108	GREAT WESTERN MINES, UT	Suspected 50	Chemical munitions	This mine was used in the 1940's as part of project Sphinx which tested chemical munitions against cave type fortifications. It appears that this claim was owned by the Cannon family and that permission to use this mine for project Sphinx was verbal agreement between owner and the military. Since the term claim is used frequently to describe the mining property, it is possible that the lands were and still are in public ownership. It appears that this mine may also contain unexploded ordnance and explosive residue from chemical weapons. Additionally, short and long rounds could have impacted outside and immediately target area. It is highly probable that the remains of chemical weapons were disposed of on the mining claims used for tests during project Sphinx.

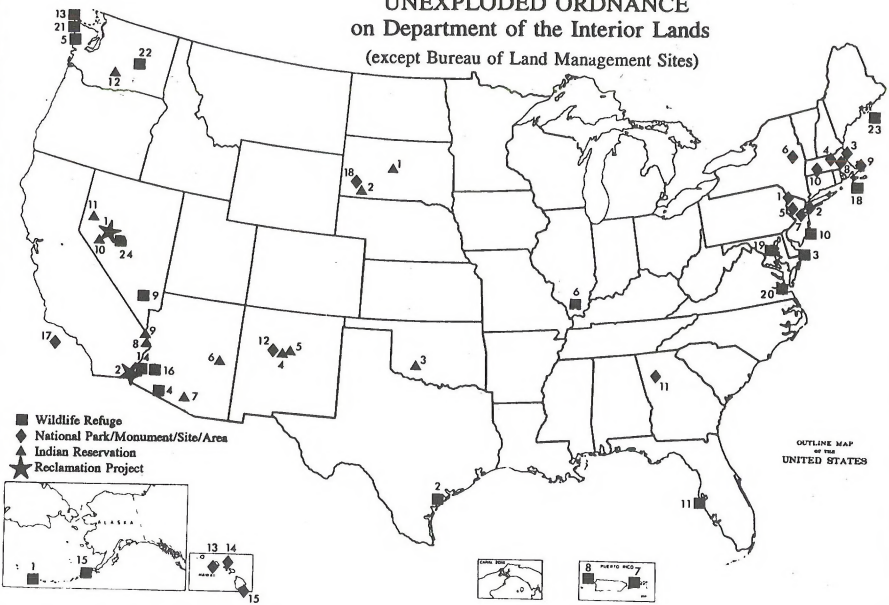
No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
109	OLD IRONSIDES MINE, UT	Suspected 50	Chemical munitions	This mine was used in the 1940's as part of project Sphinx, which tested chemical munitions against cave-type fortifications. (See Great Western Mines, #108, for additional information.)
110	SOUTHERN TRIANGLE, UT	Known 20,480	Chemical artillery munitions	This site was formerly used by Dugway Proving Ground as an artillery mortar impact range during the 1950's and 1960's. Available information does not indicate the number of munitions fired into the area or the type of chemical or biological rounds used. Only minor indications of surface cratering were observed in a flyover. No unexploded ordnance were observed because surface ordnance reportedly has been removed from the area. It is been reported that area has not been used since the mid 1960's. Subsurface unexploded items would be expected to exist at this area and could contain chemical and biological agents. Due to an absence of records, Dugway Proving Grounds has not been able to better define the specific area of use. This area has been the target of several withdrawal efforts by the Army because it is potentially contaminated from past activities. The Army believes they need a buffer for operations currently being conducted on Dugway.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
111	WILSON HOT SPRINGS, UT	Suspected 320	Unknown	This site contains a wide assortment of military debris and abandoned vehicles. The area receives considerable public use at the hot springs. The site is adjacent to the southern boundary of the southern unit of Hill Air Force Base test and training range. Placed on Federal Facilities Docket 12/15/93 by 103(c) report.
112	YELLOW JACKET AREA, UT	Known 5,760	Bombs, rockets, mortars	This area was used as a test area for various unidentified chemical agents, fire bombs, rockets, and smoke and mortar rounds during the 1940's and early 1950's. Discussion with long-time employees indicate that the surface unexploded ordnance and empty containers were cleared from the area, but some unexploded ordnance could exist in the subsurface. The area has not been used since the early 1950's, but due to the absence of records, Dugway Proving Grounds has not been able to better define the activities or exact locations where the tests were conducted in the Yellow Jacket Area. This area has been the subject of repeated efforts for permanent military withdrawal because it is potentially contaminated from past Army activities and is needed as a safety buffer for current operations.

No.	BLM SITE/LOCATION	ACRES OF UXO	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
113	YELLOW JACKET MINE, UT	Suspected 50	Chemical munitions	This mine was used in the 1940's as part of project Sphinx, which tested chemical munitions against cave-type fortifications. (See Great Western Mines, #108, for additional information.)
114	INTERSTATE 80 CORRIDOR, UT	Suspected 1,000 Unknown 575,000	Bombs, artillery, rockets	The corridor between Hill Air Force Base North Range and Hill Air Force Base South Range consists of 25 full townships. This land was administered by the Air Force and predecessors for use as a bombing range and artillery and rocket test range. The area was heavily used during WWII. The land was released to the BLM many years ago. Periodically, we receive reports of ordnance being found in this area. Specific sites, where known, are identified in the table.
115	J. DUNES WILDERNESS, WA	Known 3,500	30mm and 50mm	WW II Air Force Gunnery Range suspected. Occasional 30/50 caliber live machine gun shells found.
	SUBTOTALS (Rounded to the nearest 1,000 acres.)	Known 1,115,000 Suspected 333,000 Unknown 3,910,000		
	GRAND TOTAL	5,358,000		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNEXPLODED ORDNANCE
on Department of the Interior Lands
(except Bureau of Land Management Sites)



6/94

Attachment 1-24

U.S. FISH AND WILDLIFE SERVICE UNEXPLODED ORDNANCE SITES
AS OF JUNE 1994

No.	FISH & WILDLIFE SYSTEM UNIT	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
1	Alaska Maritime National Wildlife Refuge (NWR), AK	88,000	unexploded ordnance (UXO)	World War II (WWII) battlefields and staging areas for the invasion of Japan. Documented.
2	Aransas NWR, TX	56,668	UXO	Air Force bombing and gunnery range on Matagorda Island Unit. Documented.
3	Bombay Hook NWR, DE	56,660	UXO	Army Air Corps pre-WWII training area. Documented.
4	Cabeza Prieta NWR, AZ	860,000	50 caliber	Army Air Corps gunnery range. Documented.
5	Copalis NWR, WA	3	Suspected UXO	Navy bombing range. Documented.
6	Crab Orchard NWR, IL	10	UXO	Munitions manufacture and disposal sites. Documented.
7	Culebra NWR, PR	1,568	UXO	Navy bombing range. Documented.
8	Desecheo NWR, PR	360	UXO	Navy bombing range. Documented.
9	Desert NWR, NV	107,000	UXO	Air Force range - active. Documented.
10	Edwin Forsythe NWR, NJ	500	Suspected UXO	WWII Navy bombing range. Little Beach. Suspected.
11	Egmont Key NWR, FL	328	Suspected UXO	Spanish American era fort. Suspected.

No.	FISH & WILDLIFE SYSTEM UNIT	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
12	Flattery Rocks NWR, WA	125	Suspected UXO	Navy bombing range. Documented.
13	Imperial NWR, AZ and CA	25,768	UXO	Military firing range/target. Documented.
14	Izembek NWR, AK	5,760	UXO	Army/Air Force/ Navy - disposal site. Documented
15	Kofa NWR, AZ	13,000	UXO	Army test facility. Documented
16	Nomans Land Island, MA	620	Suspected UXO	Navy aerial gunnery and bombing range. Suspected. (FWS does not have fee title.)
17	Patuxant Research Refuge, MD	8,100	UXO	Army field training and target practice. Documented.
18	Plum Tree Island NWR, VA	3,276	UXO	Army and Air Force bombing range. Documented.
19	Quillayute Needles NWR, WA	300	Suspected UXO	Navy bombing range. Suspected.
20	Saddle Mountain NWR, WA	30,810	Suspected UXO	Army antiaircraft sighting and settling rounds. Suspected.
21	Seal Island NWR, ME	65	UXO	Navy bombing range. Documented.
22	Stillwater NWR, NV	10,000	UXO	Navy bombing range. Documented.
	TOTAL (to the nearest 1,000 acres)	1,214,000		

NATIONAL PARK SERVICE UNEXPLODED ORDNANCE SITES
AS OF 6/3/94

No.	PARK SYSTEM UNIT	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
1	Delaware Water Gap National Recreation Area, NJ/PA	1	military signal flares	Site is currently being remediated by the Army Corps of Engineers to remove intact and fragmented flares from dump site.
2	Gateway National Recreation Area, NJ/NY	2	unexploded military ordnance	Sites include sections of Sandy Hook, Fort Hancock, Floyd Bennett Field, and probably Fort Wadsworth. Ordnance removal contract in effect with Dept. of Defense and Army Corps of Engineers.
3	Salem Maritime National Historic Site, MA	1	18-pound cannonball	Cannonball unearthed in Derby Wharf area and removed by Dept. of Defense Explosive Ordnance Disposal Team. Additional ordnance may be unearthed in ongoing restoration activities.
4	Minute Man National Historic Park, MA	150	18th Century ammunition and ordnance may be present	Although no recent discoveries have been made, historic ammunition and ordnance may be present throughout the park.
5	Morristown National Historic Park, NJ	84	18th Century ammunition and ordnance may be present	Although no recent discoveries have been made, historic ammunition and ordnance may be present throughout the park.
6	Saratoga National Historic Park, NY	848	18th Century ammunition and ordnance may be present	Although no recent discoveries have been made, historic ammunition and ordnance may be present throughout the park.

No.	PARK SYSTEM UNIT	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
7	Statue of Liberty National Monument, NJ/NY	9	possible ordnance and/or mines	Small quantities of ordnance may be present at Ellis Island. Some mines from WWI or WWII may be present surrounding Ellis and Liberty Islands. Small quantities of 19th Century ordnance may be present at Castle Clinton.
8	Boston National Historic Park, MA	2	residual WWI and WWII mines, 18th Century ordnance	Mines may be present in harbor surrounding facility. Small amounts of 18th Century ordnance may be present at Bunker Hill Monument and Dorchester Heights Monument.
9	Cape Cod National Seashore, MA	6,534	unexploded ordnance, projectiles	Small quantities of unexploded ordnance likely present at Camp Wellfleet and North Truro Air Force Station. Possible projectiles and other ordnance present on beaches and within coastal waters. Park currently coordinates ordnance removal activities with U.S. Coast Guard.
10	Springfield National Historic Site, MA	1	ammunition and display ordnance	Small quantities are located on site. Small amounts of 19th and 20th century ordnance are likely present in park soils.
11	Ocmulgee National Monument, GA	1	buried shells	Shells from museum are possibly buried on site. Several live shells have previously been removed.

No.	PARK SYSTEM UNIT	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
12	El Malpais National Monument, NM	7,000	unexploded ordnance	McCarty's Crater was used as bombing range during WWII and approximately 50-100 unexploded bombs remain at the site. Recent efforts by Army Corps of Engineers have detonated bombs on approximately 1/9th of McCarty's Crater.
13	USS Arizona Memorial, Oahu, HI	10	possible unexploded ordnance	Some live ordnance was removed in 1942 and 1983, but unexploded ordnance may remain inside the ship or buried adjacent to ship's hull.
14	Kalaupapa National Historical Park, Molokai, HI	50	unexploded ordnance	Small possibility that some unexploded ordnance may be present at site in addition to small, non-exploding practice bombs previously discovered.
15	Hawaii Volcanoes National Park, Hawaii, HI	3,200	Practice bombs, Napalm bombs and igniters, rockets, machine gun ammunition	Site was used as bombing range during WWII. Some ordnance may be present outside range boundaries, but past investigations were unable to determine total amount of ordnance present.
16	War in the Pacific National Historic Park, Guam	1,960	unexploded Japanese bombs and fuses from WWII	Japanese used Ason Point, several miles offshore at a depth of approximately 60 ft., as a dump for bombs and fuses. The ordnance does not appear to pose an imminent threat and no response actions are anticipated.

No.	PARK SYSTEM UNIT	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
17	Channel Islands National Park, CA	13,000	ordnance, flares, and marker bombs	San Miguel Island was used as a practice bombing range during the Korean War. Ordnance and flares occasionally become exposed by winds. An average of three incidents are reported annually to the local Navy EOD for disposition. Santa Rosa Island, Beachers Bay, is presently used by the Navy for aerial mining drills and several marker bombs remain unlocated.
18	Badlands National Park, SD	304,000	WWII ordnance and scrap metal	Badlands Gunnery Range, the 505 Unit, was used for training bombing crews during WWII and after. Segment of range is on park land, part on Pine Ridge Indian Reservation.
	TOTAL (to the nearest 1,000 acres)	337,000		

INDIAN RESERVATIONS WITH UNEXPLODED ORDNANCE
AS OF JULY 14, 1994

No.	RESERVATION	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
1	Cheyenne River, SD			Gunnery and/or bombing ranges located on the reservation.
2	Pine Ridge, SD	183,825		Reservation lands were purchased for Air Force gunnery and/or bombing ranges. Lands are being repurchased by the reservation.
3	Allotments adjacent to Fort Sill ranges, OK			No reports of incidents involving live ordnance have been reported; however, some ordnance might exist.
4	Pueblo of Acoma, NM			Old bombing range. No reported live ordnance.
5	Pueblo of Laguna, NM			Old bombing range. No reported live ordnance.
(6)	White Mountain Apache, AZ (delete)	0		This is Fort Apache Reservation. Updated information indicates there is no UXO contamination; initial report was in error.
7	Tohono O'odham, AZ	59,520 (93 secs)	Bombs	Adjacent to Goldwater Air Force Range.
(8)	Chemehuevi, CA (delete)	0		Updated information indicates there is no UXO contamination; initial report was in error.
9	Fort Mojave, AZ/CA	26,000	Howitzer rounds	1938-1945. Army training during World War II.
10	Walker River, NV	5,000	Navy bombs, rockets, cannon rnds	Adjacent to B-19 range.

No.	RESERVATION	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
11	Pyramid Lake, NV		Navy bombs, rockets, cannon rnds	Adjacent to B-20 range.
12	Yakima, WA			It is believed that the reservation once had a bombing range.
13	Fallon Colony & Reservation, NV	100		
14	Summit Lake, NV	200		(Uninhabited)
	TOTAL	(unknown)		Acreage data requested; not yet received.

BUREAU OF RECLAMATION UNEXPLODED ORDNANCE SITES
AS OF JUNE 1994

No.	RECLAMATION PROJECT	ACRES	TYPE OF ORDNANCE	ADDITIONAL COMMENTS
1	Newlands, NV	B-20 41,000 B-16 17,000	Bombs and other aerial munitions	Navy has overlapping withdrawals for active bombing ranges on these lands. Project lands within Bravo-20 range have been identified for relinquishment. Project lands within Bravo-16 have been identified for retention.
2	Boulder Canyon, CA	63,000	Bombs and other aerial munitions	Ordnance is found next to the Coachella Canal in California. The contaminated lands have been identified for relinquishment. These lands are now being managed by the BLM. The Navy has applied for a withdrawal on 47,500 of these acres.
	TOTAL	121,000		

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United States Department of the Interior
Bureau of Land Management
1849 C Street, N.W.
Washington, D.C. 20240

October 20, 1994

In Reply Refer To:
1703 (260)

Information Bulletin No. 95-30

To: All State Directors, SCD

From: Chief, Division of Lands

Subject: Unexploded Ordnance Report

Attached for your information is the report UNEXPLODED ORDNANCE ON LANDS MANAGED BY THE DEPARTMENT OF THE INTERIOR which was submitted to the Congress July 1994. The Bureau of Land Management portion of this report was derived from the formerly used Defense site (FUDS) information the State Offices submitted earlier this year.

We delayed transmittal of this report pending an effort to reconcile the Interior report with the Corps of Engineers (COE) FUDS report. As this reconciliation is taking longer than anticipated, we are forwarding the report separately. We will provide the results of the report reconciliation effort and follow-up coordination procedures with the COE at a later date.

If you have any questions concerning the attached report, please contact Dwight Hempel or Helen A. Roberts at (202) 452-7780.

Roy A. Brady
Chief, Division of Lands

1 Attachment
1 - Unexploded Ordnance on Lands Managed by the the Interior (33 pp.)

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